

What is claimed is:

1. An electrophotographic recording device using different color toners, comprising:

a color matching processing unit which perform
5 color matching processing including color slippage correction of different color images;

an automatic color matching mode processing unit which work the color matching processing unit when conditions beforehand decided in the state that an
10 automatic correction mode is set up are realized; and

a manual color matching mode processing unit which work the color matching processing unit when this unit recognizes operator's manual color matching instructing operation in the state that a non-correction mode is set
15 up.

2. An electrophotographic recording device comprising:

a belt unit which absorb a recording sheet thereon and feeding it at a constant speed;

20 electrostatic recording units, arranged along the direction of the feed of the recording sheet, which form latent images corresponding to image data by optical scanning of exposure devices onto rotating photosensitive drums, developing the latent images with
25 toner components having different colors, and then transferring the developed images onto the recording sheet on the belt unit;

a color matching processing unit which perform color matching processing including color slippage correction of different color images;

an automatic color matching mode processing unit
5 which work the color matching processing unit when conditions beforehand decided in the state that an automatic correction mode is set up are realized; and

a manual color matching mode processing unit which work the color matching processing unit when this unit
10 recognizes operator's manual color matching instructing operation in the state that a non-correction mode is set up.

3. The device according to claim 1, wherein the automatic color matching mode processing unit comprises
15 a pre-printing correction mode, a periodic correction mode, and a composite correction mode including the pre-printing correction mode and the periodic correction mode, any one of which is selected by operator's operation.

20 4. The device according to claim 3, wherein when the automatic color matching mode processing unit recognizes selection of the pre-printing correction mode by the operator, this unit works the color matching processing unit before start of printing in the case of
25 receipt of a printing request.

5. The device according to claim 3, wherein when the automatic color matching mode processing unit

recognizes selection of the periodic correction mode by the operator, this unit works the color matching processing unit, in a printing wait state, whenever elapsed time T_w from the preceding color matching processing reaches a given periodic time n .

6. The device according to claim 3, wherein in the case that the automatic color matching mode processing unit recognizes selection of the composite correction mode by the operator, at the time of receiving a printing request this unit works the color matching processing unit before start of printing; and this unit works the color matching processing unit, in a printing wait state, whenever elapsed time T_w from the preceding color matching processing reaches a given periodic time n .

7. The device according to claim 4, wherein in the case that the automatic color matching mode processing unit recognizes selection of the pre-printing correction mode by the operator, this unit starts printing without working the color matching processing unit when automatic color matching mode processing unit receives the printing request and elapsed time T_w from the preceding color matching processing is below a given time m ; and when the elapsed time T_w is not less than the given time m , the automatic color matching mode processing unit works the color matching processing unit and subsequently starts printing.

8. The device according to claim 1, wherein when

the manual color matching mode processing unit recognizes operator's manual color matching instructing operation, this unit works the color matching processing unit forcibly even if the automatic mode of the automatic color matching mode processing unit is selected.

9. The device according to claim 1, wherein the color matching processing unit performs density correction of the respective color images designated by the operator, as well as color slippage correction of the different color images.

10. The device according to claim 1, which comprises an operator operation panel for performing mode selection operation for the automatic color matching mode processing unit, and manual color matching designation operation for the manual color matching processing unit.

11. The device according to claim 1, which comprises an interface processing unit which perform mode selection operation for the automatic color matching mode processing unit through a screen of a terminal of an external unit connected to a network, and receive and process a request of manual color matching designation operation for the manual color matching processing unit.